

1                   1.     A hose coupling having an area of peak crimp force, said hose  
2 coupling comprising:  
3                   an inner sleeve having a first end, a second end opposite said first  
4 end, and a pair of annular upset beads therebetween, said inner sleeve further having an  
5 inner diameter and an outer diameter thereon, said outer diameter having at least one  
6 projection thereon;  
7                   a hose having an inner diameter positioned over said outer diameter  
8 of said inner sleeve, said at least one projection of said inner sleeve interlocking with said  
9 hose to resist axial movement of said hose relative to said hose coupling;  
10                  an outer sleeve having a terminating end sandwiched between said  
11 pair of annular upset beads of said inner sleeve to prevent axial movement relative to said  
12 inner sleeve, said outer sleeve further having an inner diameter circumscribing said hose,  
13 said inner diameter of said outer sleeve further including at least one depression therein  
14 formed by a crimping operation, said at least one depression interlocking with said hose to  
15 further resist axial movement of said hose relative to said hose coupling; and  
16                  a reinforcing ring positioned within said inner diameter of said inner  
17 sleeve concentric with said area of peak crimp force, such that said reinforcing ring resists  
18 deformation of said inner sleeve during said crimping operation.

1                   2.     The hose coupling according to claim 1, wherein said second end of  
2 said inner sleeve is flared.

1                   3.     The hose coupling according to claim 2, wherein said second end of  
2 said inner sleeve is received within a second coupling, said second coupling comprising:

3                         a tubular body having an annular upset bead;  
4                         a cage axially retained by said annular upset bead; and  
5                         a spring disposed within said cage, said second end of said inner  
6 sleeve being retained between said cage and said spring of said second coupling.

1                   4.     The hose coupling according to claim 1, wherein said reinforcing  
2 ring is made of a rigid material.

1                   5.     The hose coupling according to claim 4, wherein said reinforcing  
2 ring is made of steel.

1                   6.     A hose coupling having an area of peak crimp force, said hose  
2 coupling comprising;  
3                         an inner sleeve having a first end, a second end opposite said first  
4 end, and a pair of annular upset beads therebetween, said inner sleeve further having an  
5 inner diameter and an outer diameter thereon, said inner diameter having at least one  
6 groove therein, said outer diameter having at least one projection thereon;

7                         a hose having an inner diameter positioned over said outer diameter  
8 of said inner sleeve, wherein said at least one projection of said inner sleeve interlocks  
9 with said hose to resist axial movement of said hose relative to said hose coupling;

10                        an outer sleeve having a terminating end sandwiched between said  
11 pair of annular upset beads of said inner sleeve, said outer sleeve further having an inner  
12 diameter circumscribing said hose, said inner diameter of said outer sleeve further having

13 at least one depression formed by a crimping operation, said at least one depression being  
14 concentric with said at least one groove of said inner sleeve, wherein said at least one  
15 depression interlocks with said hose to further resist axial movement of said hose relative  
16 to said hose coupling; and

17 a reinforcing ring positioned within said at least one groove in said  
18 inner diameter of said inner sleeve and concentric with said area of peak crimp force,  
19 whereby said reinforcing ring resists deformation of said inner sleeve during said crimping  
20 operation, said reinforcing ring having an inner diameter at least as great as said inner  
21 diameter of said inner sleeve, whereby said reinforcing ring permits full cross sectional  
22 fluid flow through said hose coupling.

1 7. The hose coupling according to claim 6, wherein said second end of  
2 said inner sleeve is flared.

1 8. The hose coupling according to claim 7, wherein said second end of  
2 said inner sleeve is received within a second coupling, said second coupling comprising:

3 a tubular body having an annular upset bead;  
4 a cage received within and retained by said annular upset bead; and  
5 a spring disposed within said cage, said second end of said inner  
6 sleeve being retained between said cage and said spring of said second coupling.

1 9. The hose coupling according to claim 6, wherein said reinforcing  
2 ring is made of a rigid material.

1 10. The hose coupling according to claim 9, wherein said reinforcing  
2 ring is made of steel.